Burroughs High-Speed Printing Technique 1. On 26 July 1957 I attended a briefing concerning the Burroughs High-Speed electrographic printing equipment being developed under contract to the U. S. Air Force Cambridge Research Center. The briefing was given by Mr. Robert F. Myers of the Cambridge Research Center and Dr. Herman Epstein of the Eurroughs Research Center, Facil, Fennsylvania. 2. Mr. Myers opened the discussion with a description of the Burroughs electrographic printing technique and its application to a high-speed page printer for use by the Air Force in transslession of weather information. The Burroughs Corporation has produced for the Cambridge Research Center a prototype high-speed page printer with a capebility of printing a 61-character line from teletype input at the rate of approximately 2000 words per minute. The original prototype machine, now under test by the Cambridge Research Center, had only five character matrizes installed and therefore was capable of producing only a 5-character line. The Burroughs Corporation, however, proposes to fabricate mervice test models of this page printer utilizing a full 64-character line and printing at the same rate. Mr. Myers pointed out that this type of page printer should be excellent for high-speed operation due to the mechanical simplicity, since there are no moving parts except the paper transport, and electronic simplicity, in that each matrix can be actuated by a similar printed board electronic circuit. He further stated that		20044-FRDP78-02820	
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it is Burrough's intention to transistorize completely the	the Burroughs electron to a high-speed page mission of weather in produced for the Cembrage printer with a compage printer with a compage printer with a community. The original Cambridge Research Combridge Research Combrid	graphic printing technique printer for use by the Air formation. The Burroughs ridge Research Center a prapebility of printing a 6% t the rate of approximatel prototype machine, now unnter, had only five character was capable of producin Corporation, however, prop f this page printer utilize printing at the same rate type of page printer should in the tech machines arts except the paper transplant of that each matrix can electronic circuit. He f	snd its application Force in trans- Corporation has ototype high-speed -character line y 2000 words per der test by the der metrizes g only a 5-character oses to fabricate ding a full . Mr. Myers lid be excellent simplicity, since sport, and be actuated by a urther stated that
	character position we complete alphabet or paper is then magniti The paper is then due the powdered ink adher Passing the paper and melts and fixes the i	e used consists of a styluich can be pulsed in any functions as desired. The zed at the points above the ted with a powdered magnet res to the previously magnetically controlly on the papers available approximately	crm to produce the plastic costed to pulsed matrix. ic ink so that ditized spots. The completely

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the initial magnitization step takes place in the printer. Attached is a sample of this printed paper and a more detailed description of the technique written by Dr. Epstein.

4. As it turned out, the primary purpose of the meeting was a last ditch attempt on the part of the Cambridge Research Center to finance the further development of this page printer since their original request for funds in the 1958 budget had been turned down. Mr. Myers admitted that the weather people are the poppest in the Air Force and felt that possibly demonstrating the usefulness of the page printer for other general communications techniques might enhance the possibility of having the funding for this program reinstated. Following the meeting I discussed this problem with from the office of Research and Development, and he stated that it seemed very unlikely that the funding for this project would be reinstated; and that if we were interested in following the project, we chould contact Burroughs Corporation directly. In addition, I asked Dr. Epstein to send to me at the address further technical details on the technique and indicated that we were interested and may contact him in the future.

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5. It is noteble that Mr. Myers indicated that he and the Burroughs Corporation had estimated the production cost of these 2000-word-per-minute printers at approximately \$3,000 per unit. This, of course, must be compared with the \$75,000 per unit Fotter instrument that is presently being produced for the AS-MA. Mr. Myers further stated that a tape printing unit could possibly be produced for less than \$1,000 per copy in fairly sizable quantity. A unit of this type, if small enough and chesp enough, could well be applicable to the new AS-5 sub-base equipment.

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Attachment: See above

OC-E/R&D-EP/WNH:cmf (1 August 1957)

cc: R&D Subject File

Monthly Report (2)

R&D Leb

O&T/SB

R&D Chrono

EP Chrono

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